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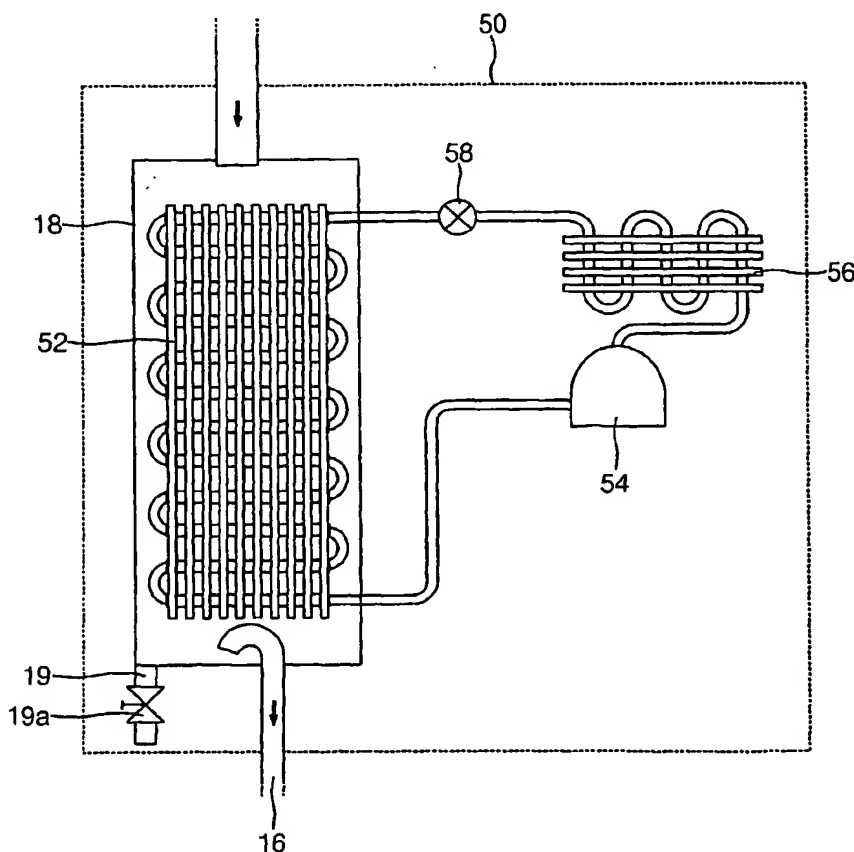
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[Continued on next page]

(54) Title: PLASMA STERILIZER HAVING DEHUMIDIFIER



(57) Abstract: Disclosed is a dehumidifier-equipped plasma sterilization apparatus having a sterilization chamber (10) for receiving therein a sterilization object (11); a high frequency power source (40), connected to a cathode, for generating plasma in optimal condition under control of both an impedance matching controller (42) and an impedance matching circuit (44), the cathode being installed, along with an anode at a predetermined distance, in the sterilization chamber; a vacuum pump (14), connected through an exhaust pipe (16) to the sterilization chamber, for exhausting air from the sterilization chamber (10) to form a vacuum state in the sterilization chamber (10); and a dehumidifier (50), mounted on the exhaust pipe (16) for freeze-condensing the water vapor of the gas flowing through the exhaust pipe. In the apparatus, water vapor remaining in the mixed gas used for sterilizing the sterilization object is frozen and removed so that it does not enter the vacuum pump.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7 A61L 2/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A61L, F26B, H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patent and applications for inventions since 1975, Korean Utility models and applications for Utility Models since 1975
Japanese Utility models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
KIPASS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0278623 A (SURGIKOS, INC.) 17 August 1988 See the whole document	1-2
A	WO 96/21473 A (GRAVES, CLINTON, G.) 18 July 1996 See the whole document	1-2
A	EP 0707186 A (JOHNSON & JOHNSON MEDICAL INC.) 17 April 1996 See the whole document	1-2
A	EP 0834324 A (JOHNSON & JOHNSON MEDICAL INC.) 08 April 1998 See the whole document	1-2
A	US 5,325,020 A (ABTOX INC.) 28 January 1994 See the whole document	1-2

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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